



www.hospitalsystems.com

Operations & Maintenance Manual

Hospital Systems Inc.
750 Garcia Avenue
Pittsburg CA 94595
USA

Tel: 925.427.7800
Fax: 925.427.0800

VAMC PALO ALTO PALO ALTO, CALIFORNIA

Spinal Cord Injury Replacement Solicitation No. VA-261-11-RP-0076

Infinity Headwall
Bed Bumper Locator/Module

CONTRACTOR

Patriot Construction, Inc.
4646 Qantas Lane Ste. B-5
Stockton, California 95206-4982
Tel: (209) 982-9900
Fax: (209) 982-9909
Mobile: (209) 640-7417
E-mail: steve@patriotbuilds.com
Attn: Steve Pattison

HSI Order ID 10580
November 12, 2013

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Part 2. Installation

Part 3. Parts List

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Part 1

Product Data

Regulatory Agency Approvals

Underwriters Laboratories Inc. (U.L.)

Hospital Systems, Inc. products are listed as complete assemblies under one or more of the following certificate numbers. All components used within the Hospital Systems, Inc. products are U.L. listed or U.L. recognized.

Isolated Power Systems Equipment.

Guide KEWN File E55069

Medical Headwalls and Medical Supply Units

Guide KEZR File E61595

Isolated Power Wall Modules [Patient Headwalls with Isolated Power]

Guide KEXS File E55255

Fluorescent Fixtures

Guide IEUZ File E64528

Guide HZLR File E64528

Line Isolation Monitors

Guide OWLS2 File E55649

Guide OWLS2 File E81789

National Fire Protection Association. (NFPA)

All Hospital Systems, Inc. products are manufactured to meet or exceed the requirements of the NFPA 99, NFPA 56A, NFPA 76B, and all American National Standards that form the basis of the codes in jurisdictions in the United States.

National Electric Code. (USA)

Hospital Systems, Inc products are manufactured to comply with the latest versions of the NEC.

State of California.

OSHPD pre-approval numbers OPA-2354-07, OPA-2355-07, OPA-2356-07 and OPA-2361-07

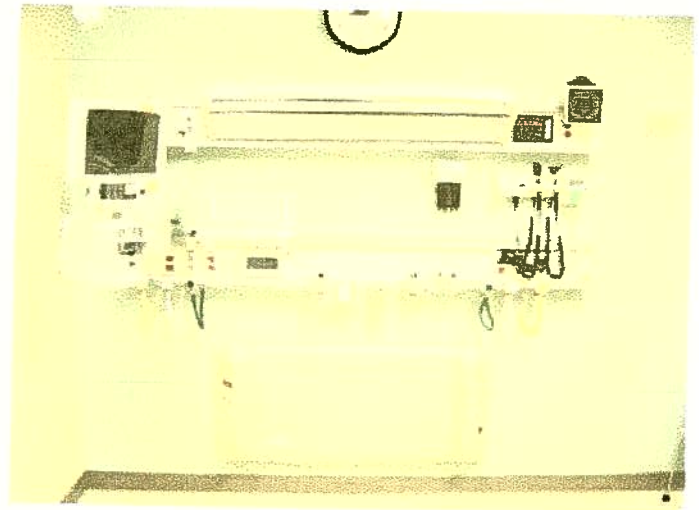
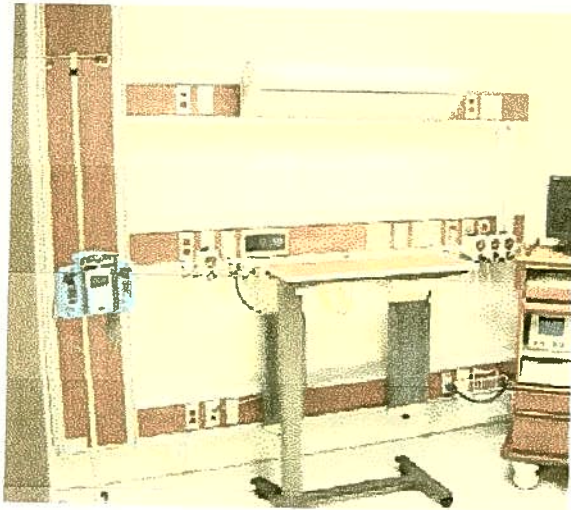
Chicago Electric Code.

Products manufactured by Hospital Systems, Inc. meet or exceed the requirements of the codes in force for the City of Chicago, Illinois, Bureau of Electrical Inspection.

City of New York.

The modular wall systems manufactured by Hospital Systems, Inc. meet or exceed the requirements of the codes in force for the city of New York.

Infinity™ Patient Service System



The Infinity Patient Service System is the only horizontal rail system offering the complete mix of services.

The services you can choose include fixed and movable medical gas and vacuum, normal and emergency power, and communications – all within a single rail, with or without a vertical service chase.

Shipped pre-piped and pre-wired, the Infinity systems are designed for easy installation.

The Infinity system is available in over 750 colors and textures, to complement any interior design concept.

The Infinity is designed for maximum use of available space. From a single rail spanning a recovery area to a three-rail system in an intensive care unit, any combination can be designed to accommodate your needs.

©HSI 2009 C-2159

A few of the features that make the Infinity™ a superior choice:

Any Length:

Up to 17 feet (5180mm) in a single continuous section, or for longer units sections can be joined..

Fastest Installation:

Shipped completely pre-piped and pre-wired, the Infinity requires only single point connections at the top of the vertical chase (if so equipped) and at the intersection of the horizontal rail and vertical chase, or adjacent horizontal sections. The Infinity is shipped in the most complete form possible and can be installed faster, with less chance of loss or breakage during installation.

Easiest to Maintain:

No panels, therefore no place for debris to collect. The Infinity is easy to clean.

Choice of Gas Connections:

Both fixed and movable gas outlets are available. Not only does this save money at the start, it assures you always have at least one gas service available - and you know exactly where the gas outlet is located. This can literally be a lifesaver in an emergency.

Most Compact:

All electrical and communication devices are oriented vertically, as they are throughout the hospital, so there's no confusion as to which way to insert a plug, or turn on a light in high-stress situations. Also, more services can be located in less space.

Flexibility:

The Infinity offers the widest range of services, colors and configurations available. There are over 750 colors and textures from which to choose.

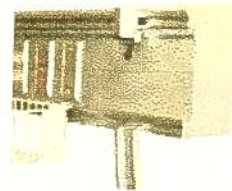
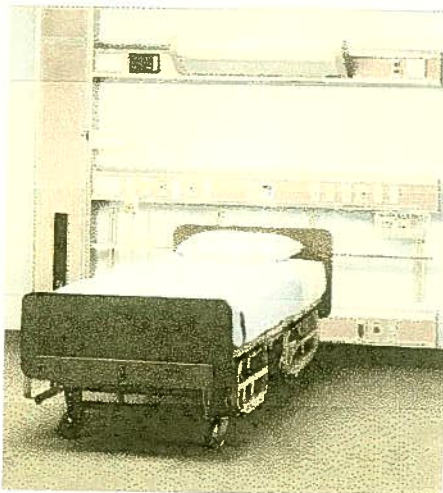
International:

The Infinity is constructed to the requirements of NFPA-99, HTM20-22, DIN or AS3001 standards.

Quality, Dependability and Experience:

Hospital Systems has been manufacturing headwalls since 1970, a pioneer in this field.

Call us when you require a system designed to your specifications. We do not modify your needs - we meet them.



Dual Equipment Rail



Single Equipment Rail



OSHPD
R-0137

Specifications

Infinity™ Horizontal Patient Headwall

THE INFINITY RAIL shall be manufactured by Hospital Systems, Inc., Pittsburg, CA 94565 USA in accordance with these shop drawings and documents.

1. Basic Construction

The enclosure shall be constructed of extruded, heat-treated, anodized aluminum alloy sections to provide a modular, surface-mounted wall unit. Horizontal raceways and vertical chase shall be factory assembled and wired to include mechanical and electrical components as shown on these shop drawings. Anodized aluminum fascia shall be removable for access to individual components mounted within the plastic laminate-covered raceway sections of the Infinity headwall. Coverplates shall be constructed of clear anodized aluminum. Primary electrical conduit runs to the headwall unit are provided by the electrical contractor and shall be accommodated by an upper terminal enclosure furnished as an integral part of the vertical chase. All secondary wiring within the horizontal raceways and vertical chase shall be enclosed in fixed wiring raceways and shall be terminated in the terminal enclosures indicated on the shop drawings. All wiring shall be marked, color-coded and tie wrapped to facilitate easy circuit identification.

The vertical chase shall incorporate removable fire-retardant panels that shall be finished with a plastic laminate to match the horizontal raceway members. The color of the plastic laminate shall be as selected by the hospital and architect from Hospital Systems, Inc. standard colors.

2. Components

INTERNAL GROUND BUS. A ground bus shall be included with a minimum of 24 screw type terminals, one of which is suitable for number 10 wire for the main ground connection. The ground bus assembly shall also provide a positive means for grounding the breaker enclosure.

POWER OUTLETS. Power receptacles shall be supplied in the types and quantities as shown on the drawings. Receptacles shall be Hospital Grade and shall be U.L. listed & CSA.

MEDICAL GAS STATION OUTLETS AND COUPLERS. Oxygen, vacuum, medical air, evacuation, and nitrous oxide outlets shall be either fixed or movable as shown in these shop drawings. All fixed outlets will be installed at Hospital Systems, Inc. factory, manifolded and tested in accordance with the gas outlet manufacturers' instructions. All movable outlet assemblies shall be assembled and tested prior to shipment by Hospital Systems, Inc. The mechanical contractor or installing contractor shall assemble and test the movable gas outlet assemblies to the Infinity headwall unit. The mechanical contractor will bring the primary supply lines of the medical gases to the terminal connections at the top of the vertical chase and shall make the connection to the horizontal raceway piping as shown on the shop drawings.

3. Provisions

NURSE CALL EQUIPMENT. All nurse call equipment shall be furnished and installed by others as indicated in the plans and

specifications. A labeled pull cord shall be provided by Hospital Systems, Inc. for use by the nurse call installer.

MONITORING EQUIPMENT. Monitor equipment shall be provided and installed by others. Hospital Systems, Inc. shall provide a matching blank plate for the monitor receptacle to the monitor supplier when requested. The *Infinity* unit will include a factory-installed raceway and labeled pull pull cord to accommodate the monitor wiring. Where specified a PMS-80 Tilt Swivel Monitor Bracket and slide shall be provided to support the physiological monitor.

4. Unimount

Unimount and Eclipse Accessories shall be provided in the quantities and types as shown in the shop drawings. Unimount and Eclipse accessories shall be installed by others in the locations as determined by the end user group. Unimount and Eclipse accessories shall be attached using patented brackets. Patent #4,725,030.

5. Installation

Installation of the Infinity headwall shall meet the following requirements.

The manufacturer of the Infinity headwall shall supply a ceiling mounting plate with knockouts for hospital service connections to the vertical service chase. Ceiling mounting plate shall be furnished with instructions for mounting. Ceiling mounting plate may be supplied in advance (if required) for rough-in of electrical and medical gas services. Power and gas rail hangers with mounting hardware and instructions shall also be supplied.

The mechanical contractor shall install and provide primary connections to the Infinity headwall medical gas manifold. It shall be

the responsibility of the mechanical contractor to connect the accessible vertical drops to the horizontal gas raceway. The mechanical contractor shall also perform, and certify all pressure tests as required by CSA.

The installing contractor shall install service chase by removing upper panel and attaching service chase to ceiling mounting plate, and install bottom anchors. Instructions shall be furnished by the manufacturer. The electrical contractor shall furnish and install conduit to ceiling mounting plate knockout with wiring. He shall make connection of building services to pre-wired junction box as shown on electrical drawings and herein specified. Low voltage equipment and cabling shall be installed in Infinity headwall as specified.

The installing contractor shall mount horizontal hanger brackets. Horizontal rails shall be mounted to hanger bracket and affixed to the building wall. The installing contractor shall supply fasteners to suit local conditions. The various trades shall wire and pipe into the service chase, and between sections of the horizontal rails when so shipped. Accessories such as light fixtures, and auxiliary equipment etc. are to be installed by electrical contractor.

After the installation of equipment has been completed, the electrical contractor shall check out entire installation for proper operation and cleanliness.

Infinity, Horizon-8, Aurora, React, Superlux, Qualux, PMS-80, Unimount, and Eclipse are trademarks and registered trademarks of Hospital Systems, Inc.

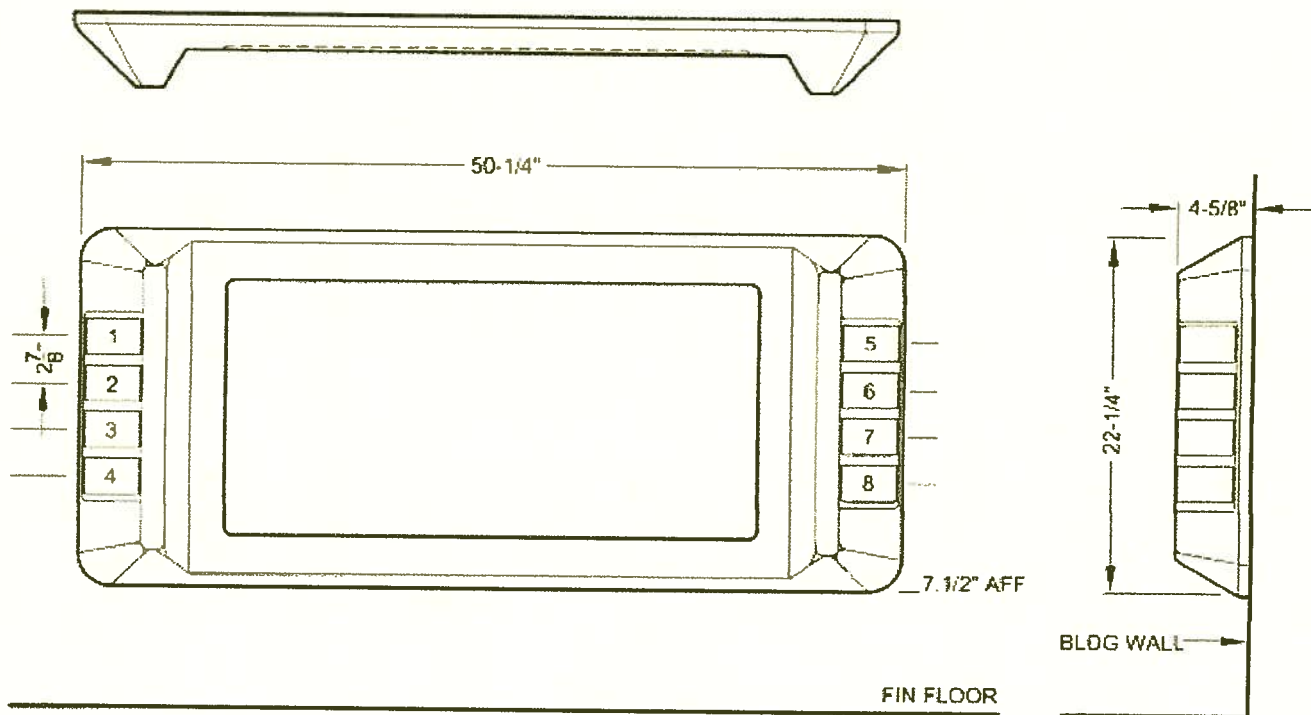
Bed Locator & Docking Station



The Hospital Systems, Inc. Bed Locator & Docking Station is provided to properly position the patient bed as well as protect the room walls. Space for four electrical devices is provided on each side of the Bed Locator. To safeguard these devices from damage, they are angled away from the bed. Any combination of electrical receptacles [normal and/or emergency], dedicated bed receptacle, telephone jack, bed communication jack, and night light may be installed. A low voltage lighting controller can be provided within the Bed Locator. The exposed portion of the Bed Locator is manufactured from single seamless, high impact plastic which makes it strong and easy to clean. Standard color is white, other colors are available.



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Ordering Information:

Select one device from the following for each of the eight available locations

Device	1	2	3	4	5	6	7	8
Electrical receptacle, Hospital Grade, Duplex, Normal								
Electrical receptacle, Hospital Grade, Duplex, Emergency								
Electrical receptacle, Hospital Grade, Single, BED ONLY								
Telephone Outlet (RJ-11)								
Night Light								
Bed Communication Jack								
Provision for Low voltage connector								
Low Voltage Lighting Controller (internal)								

Weight: 50 lbs (23 kg)

Dim: 50.25" x 22.25" x 4.62" (1277mm x 565mm x 118mm)



REVISION				
1				
2				
3				
4				
5				

TITLE: EQUIPMENT LIST
PROJECT: VAMC Palo Alto Palo Alto, California
10580

Drawn: LD	Date: 01.11.12
Checked:	Scale: NTS
Part Number: 3710580	

THIS DOCUMENT WITH THE INFORMATION PRINTED HEREON ARE CONFIDENTIAL PROPRIETARY PROPERTY OF HOSPITAL SYSTEMS, INC. AND ARE FURNISHED SOLELY FOR USE IN OBTAINING APPROVAL OF THE CONSTRUCTION DETAILS AND MATERIALS. NO PART OF THIS DOCUMENT MAY BE REPRODUCED, USED OR DISTRIBUTED EITHER IN WHOLE OR IN PART WITHOUT AUTHORIZATION FROM HOSPITAL SYSTEMS, INC.

PROJECT
VAMC PALO ALTO HEALTH CARE SYSTEM 3801 MIRANDA AVENUE PALO ALTO, CALIFORNIA 94304

CONTRACTOR
PATRIOT CONSTRUCTION, INC. 4546 DANTAS LANE STE. B-5 STOCKTON, CALIFORNIA 95206-4882 TEL: (209) 982-9900 FAX: (209) 982-9909 ATTN: STEVE PATRIOT MOBILE: (290) 640-7417 EMAIL: steve@patriotbuilds.com

DISTRIBUTOR

SALES REPRESENTATIVE

NOTE: THE ABOVE EQUIPMENT LIST INCLUDES ALL ITEMS AND ASSEMBLIES THAT ARE PART OF THIS CONTRACT. THEY ARE DESCRIBED ON THE ATTACHED SHOP DRAWINGS AND SPECIFICATIONS.

EQUIPMENT LIST						
ITEM	PART NUMBER	DESCRIPTION	QTY	WIRING	BACKBOX	MTG DIAGRAM
A	1903182	INFINITY HEADWALL, (13-GANG)	13	326180	030613-13	265785
B	1903183	BED BUMPER MODULE/LOCATOR	13	-	308000	265786
C						
D						
E						
F						
G						
H						
I						
J						
K						
L						
M						
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X						
Y						
Z						

PREPARED FOR
VAMC PALO ALTO Spinal Cord Injury Replacement Solicitation No. VA-261-11-RP-0076 PALO ALTO, CALIFORNIA

CEILING HEIGHT: N/A	MEDICAL GAS OUTLETS
WIRING DIAGRAM: 326180	
FASCIA COLOR	KEY STYLE: [] PURITAN BENNETT (OC)
HP1 MANUFACTURER: STEELCASE/DPUS	[] CHEMETRON (OC)
COLOR: SUGARLOAF MAPLE	[] MEDAIDS (OHMEDA) (OC)
NURSE CALL PATIENT STATION	[X] DISS
MANUFACTURER: N/A	NOTE: ALL MEDICAL GAS OUTLETS IF
MODEL NUMBER: PROV. (3G)	FURNISHED BY OTHER MUST
CODE BLUE	BE OF CONSISTENT TYPE
MANUFACTURER: N/A	PIPE SIZES TYPE 1"
MODEL NUMBER: N/A	OXY 1/2" NOM.
NURSE ASSIST	AIR 1/2" NOM.
MANUFACTURER: N/A	VAC 3/4" NOM.
MODEL NUMBER: N/A	ASTM B818
NOTE: CIRCUIT IDENTIFICATION (PANEL & CIRCUIT NUMBER) ON COVER PLATE OF	
POWER RECEPTACLES IF RECEPTACLES ARE DONE IN THE FIELD BY OTHERS	
FOR AN ADDITIONAL CHARGE. HOSPITAL SYSTEMS WILL ENGRAVE THE COVER PLATES	
WITH CIRCUIT I.D.	

QTY. REQ'D: 13-UNITS

SERIAL NO	ROOM NO.
10580-000-01	
10580-000-02	
10580-000-03	
10580-000-04	
10580-000-05	
10580-000-06	
10580-000-07	
10580-000-08	

ITEM	DESCRIPTION	QTY
DX1	OXYGEN OUTLET	1
AIR	AIR OUTLET	1
VAC	VACUUM OUTLET	1
1	RECEPT. DUPLEX EMERGENCY RED (SELF-ILLUMINATED)	2
2	RECEPTACLE; DUPLEX, NORMAL INORY	2
27	PROVISION FOR NURSE CALL (3-GANG)	1
78	BED BUMPER/MODULE (1903183)	1

GENERAL NOTES

BASIC FRAME IS CONSTRUCTED OF DEEP ETCHED, CLEAR ANODIZED EXTRUDED ALUM.
FASCIA IS FINISHED WITH HIGH PRESSURE PLASTIC LAMINATED TO ALUMINUM BACKER.
END CAPS ARE MOLDED GREY PLASTIC, COLOR TO MATCH BASIC FRAME.
ECLIPSE™ EQUIPMENT RAIL IS INTEGRAL TO EACH HORIZONTAL UNIT.
MEDICAL GAS SERVICE CONNECTIONS MUST ENTER WHERE INDICATED IN DRAWINGS.
ELECTRICAL/COMMUNICATION TERMINATIONS SHALL BE THROUGH PROVIDED ROUGH-IN BOXES.
L - LOW VOLTAGE CIRCUIT COMPARTMENT
E - EMERGENCY CIRCUIT COMPARTMENT
N - NORMAL CIRCUIT COMPARTMENT

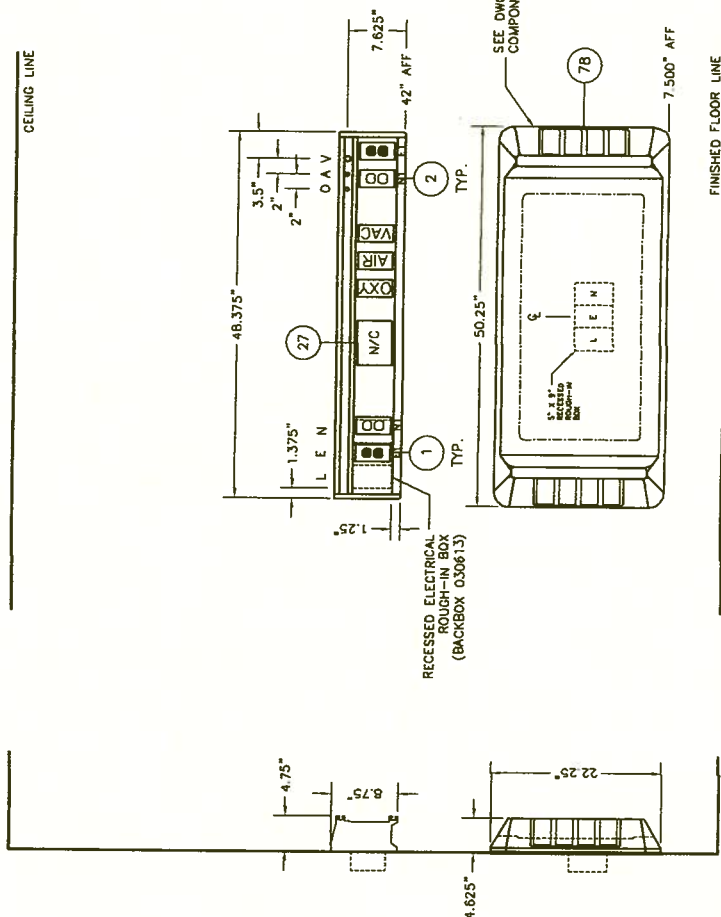
TITLE: INFINITY™ RAIL: 13G

PROJECT:
VAMC Palo Alto
Palo Alto, California

10580

Drawn: LO	Date: 01.11.12	Scale: 1/16"=1'	Part number: 1903182
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SPINAL CORD INJURY REPLACEMENT
SOLICITATION NO. VA-261-11-RP-0076

REVISION					
1					
2					
3					
4					
5					

FILE: BED LOCATOR & DOCKING STATION

PROJECT:
**VAMC Palo Alto
Palo Alto, California**

10580

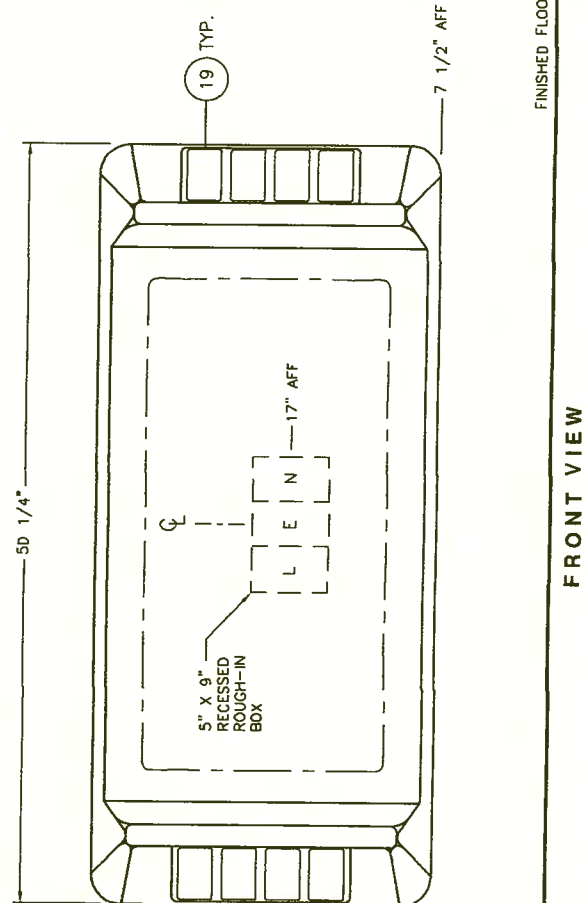
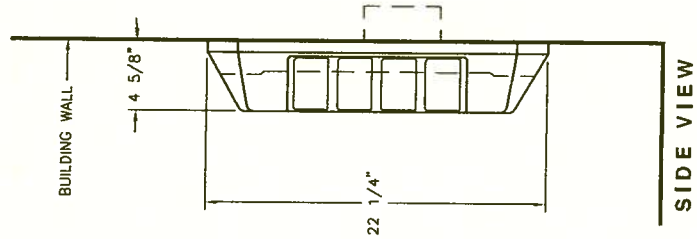
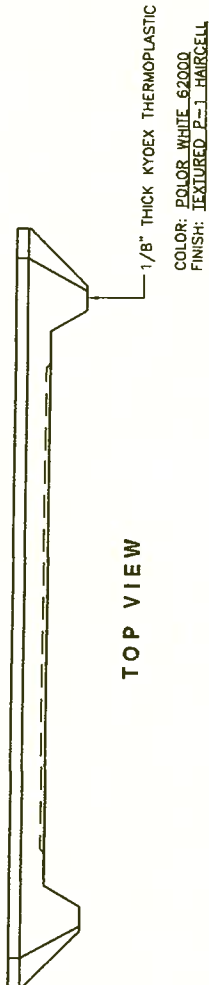
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Date:	01.11.12
Checked:	
Scale:	1/8"=1"
Part number:	1903183

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QTY. REQ'D.: 13-UNITS

ITEM	DESCRIPTION	QTY
19	1G BLANK PROVISION WITH FACE PLATE	8

WIRING DIAGRAM:	REGULATORY AGENCY APPROVAL
MOUNTING DIAGRAM: 265786	
L - LOW VOLTAGE SERVICE BOX	U.L. LISTED
E - EMERGENCY SERVICE BOX	
N - NORMAL CIRCUIT SERVICE BOX	



REVISION	
1	RT 03.06.13
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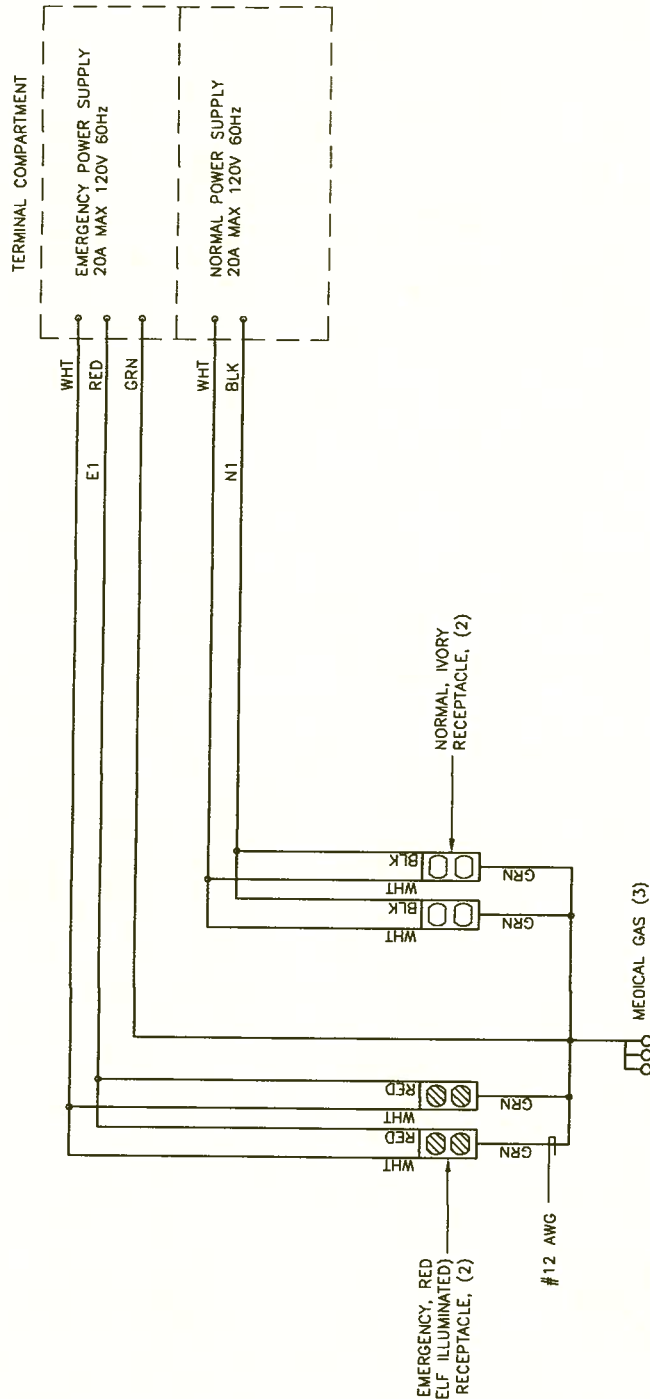
TITLE: WIRING DIAGRAM, INFINITY HEADWALL

PROJECT:
VAMC Palo Alto
Palo Alto, California

10580

Drawn:	LD
Date:	01.11.12
Checked:	
Scale:	3/4"=1"
Part Number:	326180

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REF. UNIT: 1903182

- NOTES:
- UNLESS OTHERWISE SPECIFIED, ALL CIRCUIT WIRES SHALL BE #12 AWG 600V STRANDED COPPER WITH THHN INSULATION.
 - GROUND RECEPTACLE WIRE (WHEN APPLICABLE) SHALL BE #10 AWG STRANDED COPPER WITH GREEN THHN INSULATION.
 - DISCONNECT INCOMING CIRCUITS BEFORE SERVICING HEADWALL UNIT.
 - TIGHTENING TORQUE FOR CONNECTIONS TO TERMINAL STRIPS (WHEN APPLICABLE) IS 16 POUNDS PER INCH.
 - ALL ELECTRICAL RECEPTACLES ARE MANUFACTURED BY LEVITON, UNLESS OTHERWISE SPECIFIED.
 - LINE CONVENTIONS:
 ——— = PRE-WIRED BY HSI
 - - - = WIRED BY OTHERS

JOB 10580-01

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REVISION					
1					
2					
3					
4					
5					

FILE: ROUGH-IN BOX: INFINITY HEADWALL

PROJECT:
VAMC Palo Alto
Palo Alto, California

10580

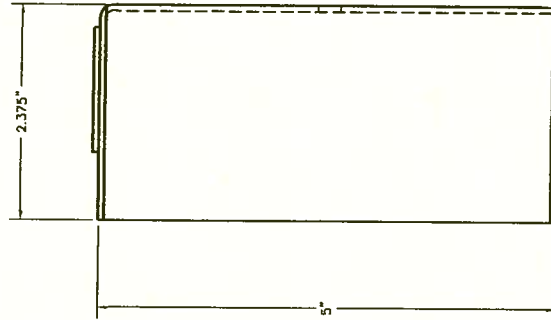
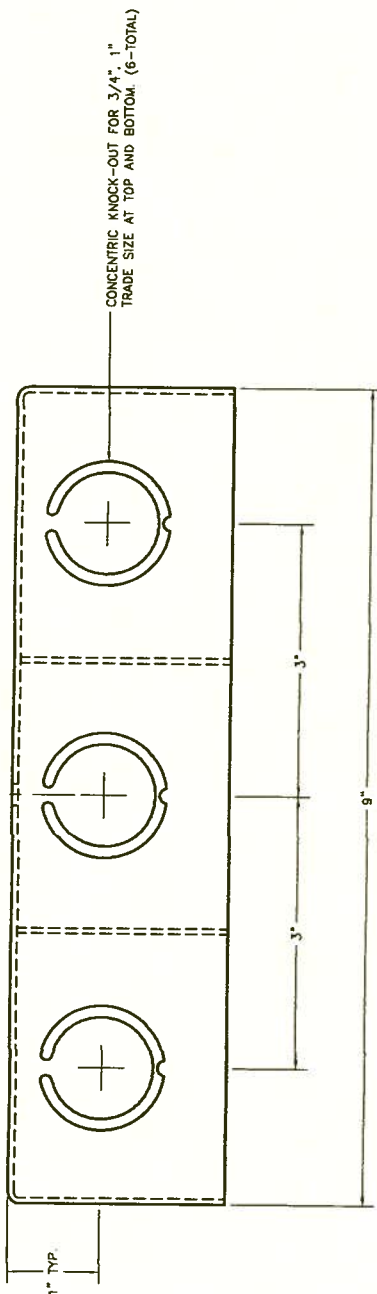
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Date:	01.11.12
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Scale:	3/4"=1"
Part number:	030613

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QTY. REQ'D: 13-PCS.

MANUFACTURING INFORMATION	
MATERIAL	16GA. GALVANIZED STEEL
FINISH	
MAKE FROM	
NOTE:	

REF. UNIT: 1903182



TACKWELD IN ONE PLACE.
TYP. FOUR CORNERS
(FOLD TIGHT CORNERS
LEAVING NO GAPS)

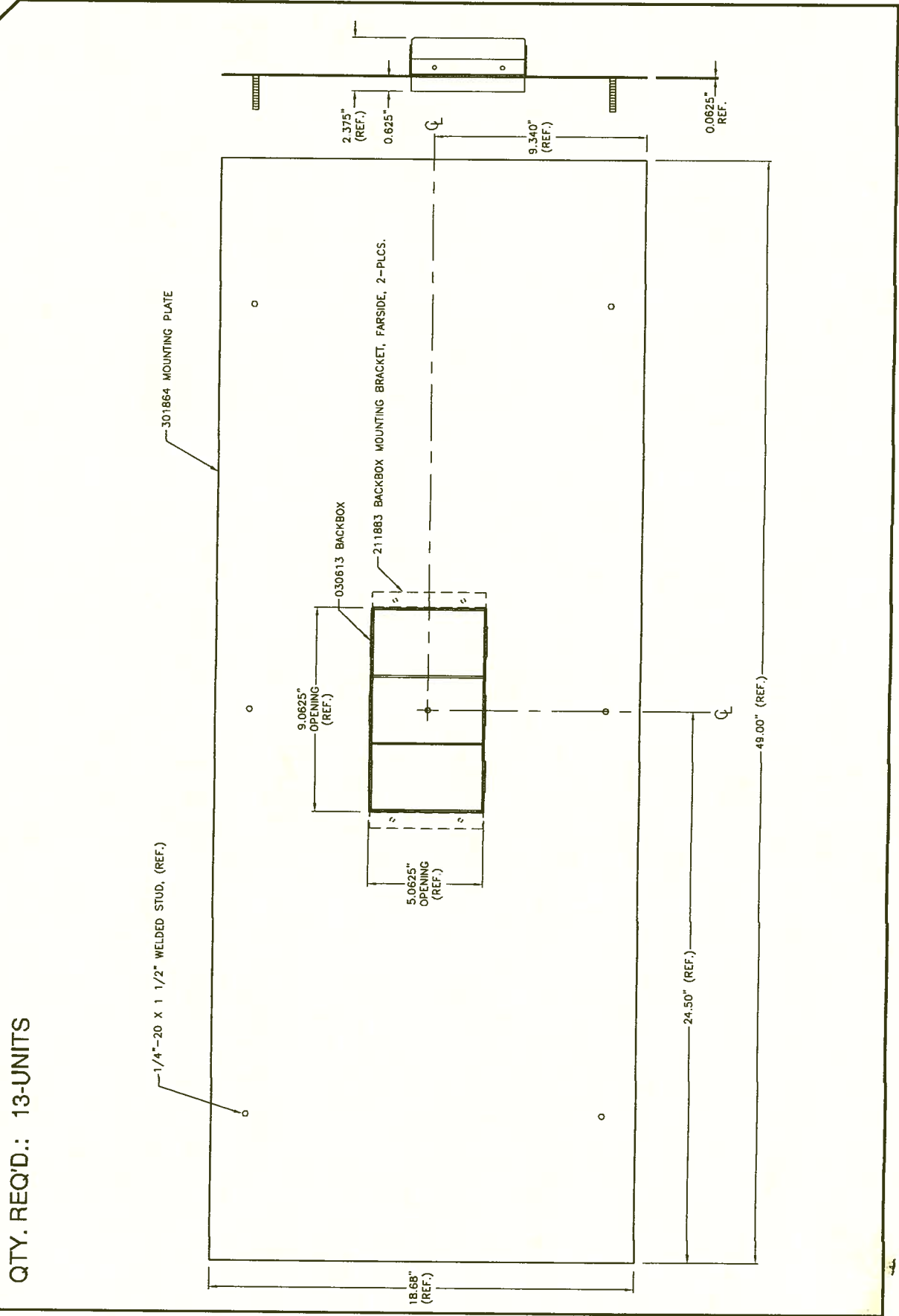
BARRIER, TYP.
(TACKWELDED)

HOLE SIZE #29

Drawn:	LD
Date:	01.11.12
Checked:	
Scale:	1/4"=1"

Part Number: ***308000**

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Part 2

Installation



**HOSPITAL
SYSTEMS®**

www.hospitalsystems.com

Installation Instructions

Tel: 925.427.7800
Fax: 925.427.0800

support@hospitalsystems.com

Hospital Systems Inc.
750 Garcia Ave
Pittsburg CA 94565
USA

Infinity™ Horizontal Headwall

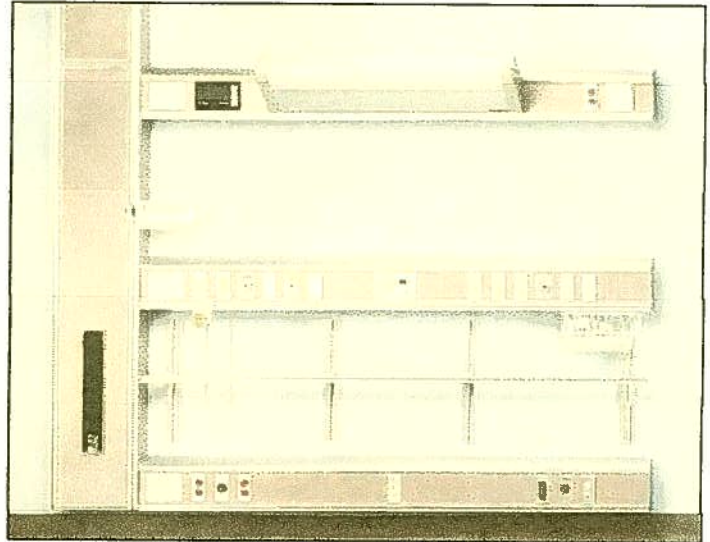
Please read through these instructions completely prior to attempting any installation

1. Install backing in building wall as required. Set ceiling mounting plate for the vertical chase [if so specified].

2. Set and level service chase module [if so equipped] and secure it to the building wall.

3. Locate stud center or backing material. Layout the rail hanger bracket for the top-most rail at

the height above the finished floor as noted on elevation drawings, then butt the hanger bracket against the service chase. Align and level the hanger bracket and secure to wall using appropriate mounting hardware [wood screws, toggle bolts, sheet metal screws, etc as per local code, Note: Hardware is not supplied with headwall]. Note: Hanger bracket must be straight and level. If the wall is not true, shim the hanger bracket as needed. Repeat the above for the middle and lower Infinity rails. Note: Not all systems are equipped with all three rails. Refer to elevation drawings for each headwall installation.



4. To install the horizontal rails, begin with the top rail and work down. Remove the top cap and set it aside. If connecting a vertical chase or additional rail, remove the 1/4-20 nut and washer from the connecting stud. Set the horizontal rail onto the hanger bracket, [if connecting with the chase, feed the flex conduit containing the service conductors into the chase module]. Note: The flex conduit and conductors have been cut and laced for proper fit. No field cutting of either is required. Butt the horizontal rail against the service chase module, align, and reinstall the 1/4-20 connecting studs. Note: Be sure to attach the ground wire from the chase to the rail. Secure the rail to the building wall/backing material using appropriate hardware [see Step 3 above]
5. Repeat Step 4 for the remaining horizontal sections. Caution: Be extremely careful when installing the horizontal rail containing the medical gas piping. Note: If the units you are installing are composed of several horizontal sections per rail, you must install the section closest to the service chase first. Proceed with the adjacent section only after securing the first section to the wall and chase. Slide the sections snugly together, align and install connecting studs for each section as you go, again securing each section to the wall before proceeding.



www.hospitalystems.com

Installation Instructions

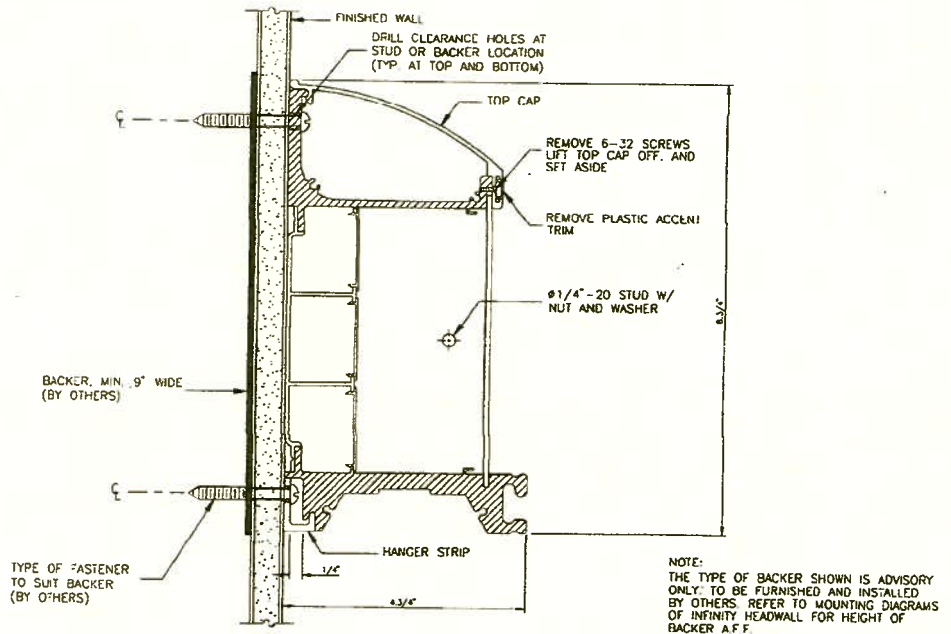
Tel: 925.427.7800
Fax: 925.427.0800

support@hospitalystems.com

Hospital Systems Inc.
750 Garcia Ave
Pittsburg CA 94565
USA

Infinity™ Horizontal Headwall

6. Connect the marked conductor color to color at the terminal blocks, or use wire nuts in the junction boxes. All conductors have been marked and laced for proper fit. All interconnecting wiring in the service chase is factory installed. Feed the nurse call and other low voltage system wires or pull cords into their respective terminal compartments for future connection by others. Medical gas piping has been factory cut to exact fit and tied into the service chase for field connection at the top of the chase and at the intersection of the vertical chase and the horizontal rail. Note: If the horizontal rails are in several sections, connections will be required between sections as well. Fitting are provided.
7. With all sections completed, replace the top cap on the horizontal rails. If an overbed lighting fixture is included, install it after the top cap has been re-installed. Re-install the access panels on the vertical service chase.
8. If equipped with Unimount™ Track and Eclipse® Equipment Rail between center and lower rails [or below center rail], secure the Unimount™ Track to the backing material using appropriate hardware. Attach the stand-off brackets to the Unimount Track, then install the Eclipse Equipment Rail in the stand-off and tighten the set screw.





**HOSPITAL
SYSTEMS®**

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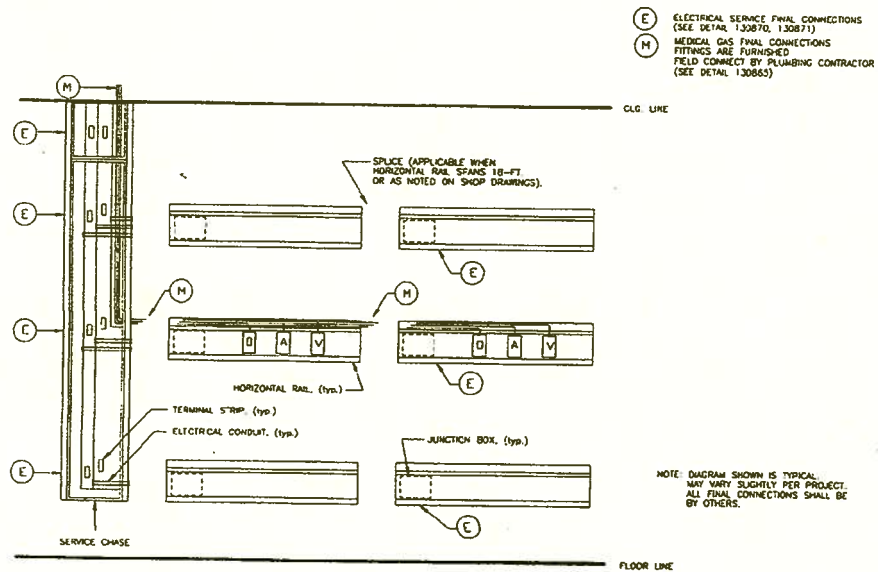
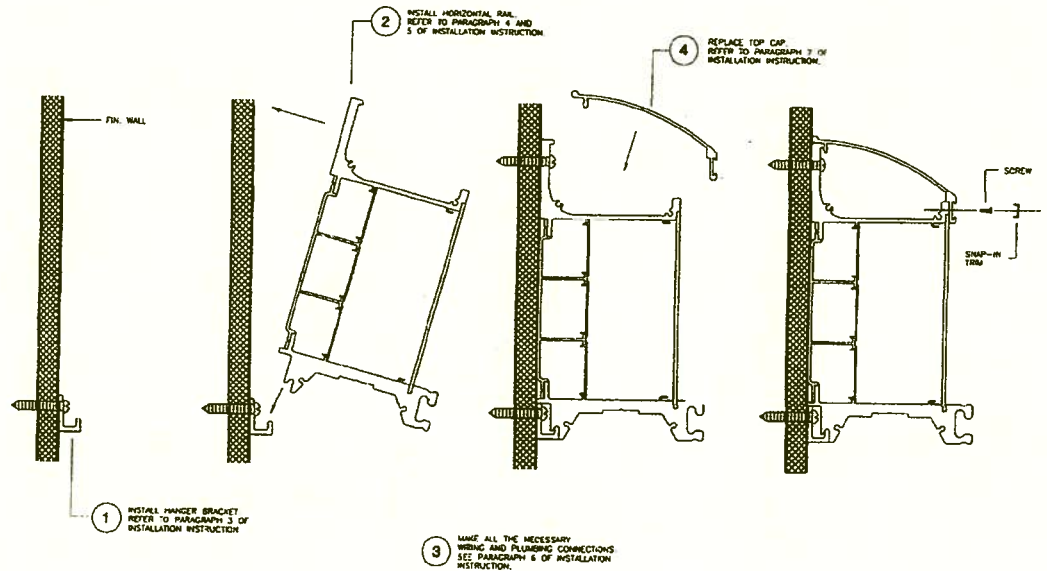
Installation Instructions

Tel: 925.427.7800
Fax: 925.427.0800

support@hospitalsystems.com

Hospital Systems Inc.
750 Garcia Ave
Pittsburg CA 94565
USA

Infinity™ Horizontal Headwall





HOSPITAL
SYSTEMS®

www.hospitalsystems.com

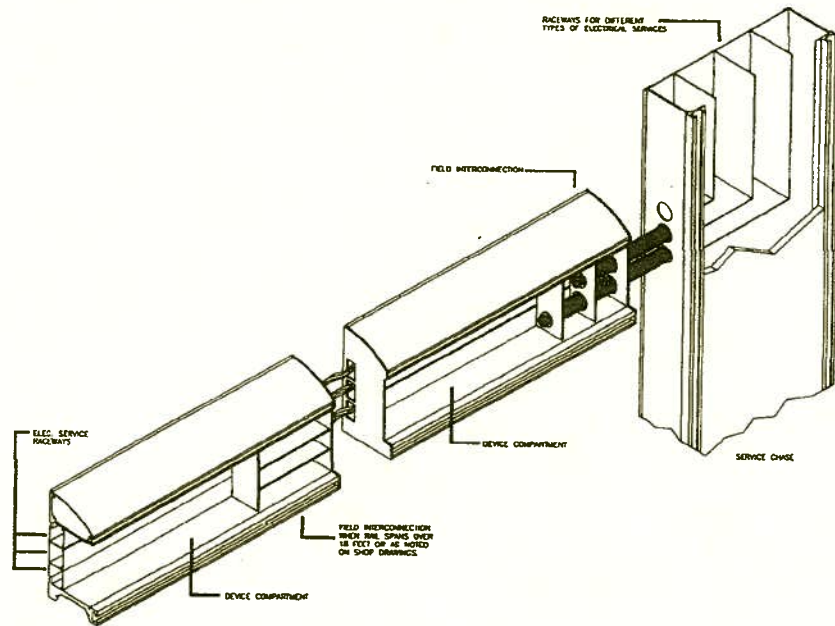
Installation Instructions

Tel: 925.427.7800
Fax: 925.427.0800

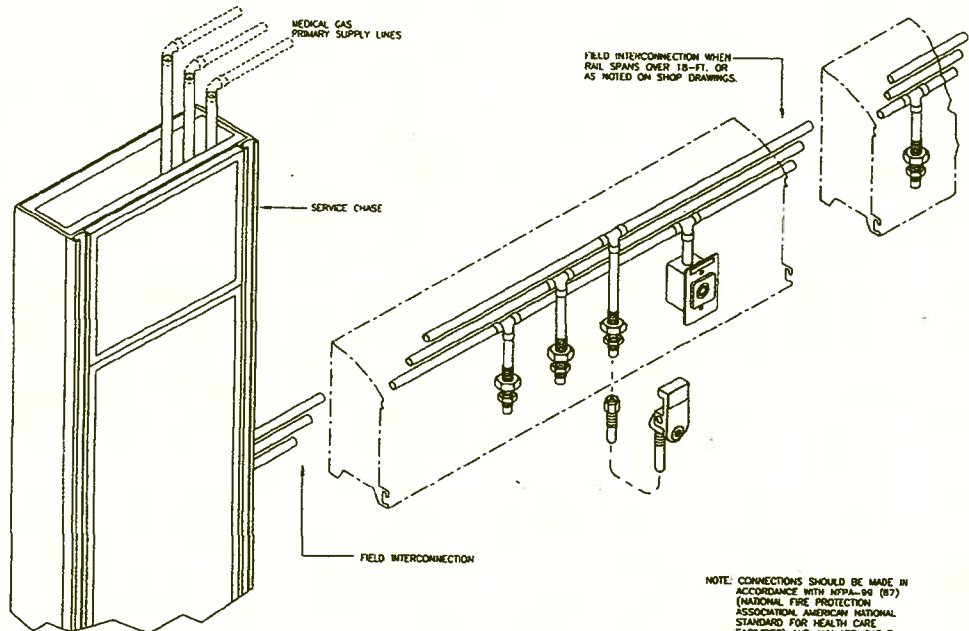
support@hospitalsystems.com

Hospital Systems Inc.
750 Garcia Ave
Pittsburg CA 94565
USA

Infinity™ Horizontal Headwall



Electrical feeds from chase



Medical Gas Piping feeds from chase

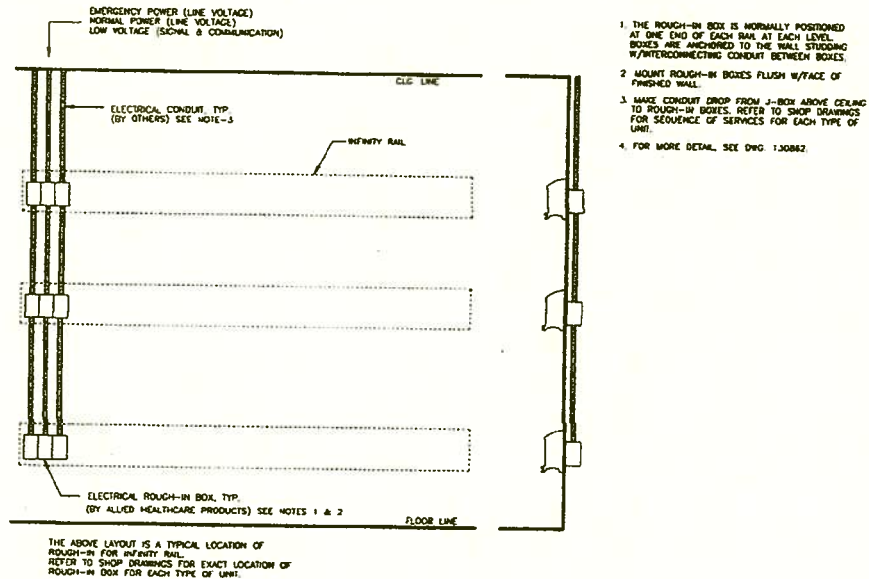
Installation Instructions

Tel: 925.427.7800
Fax: 925.427.0800

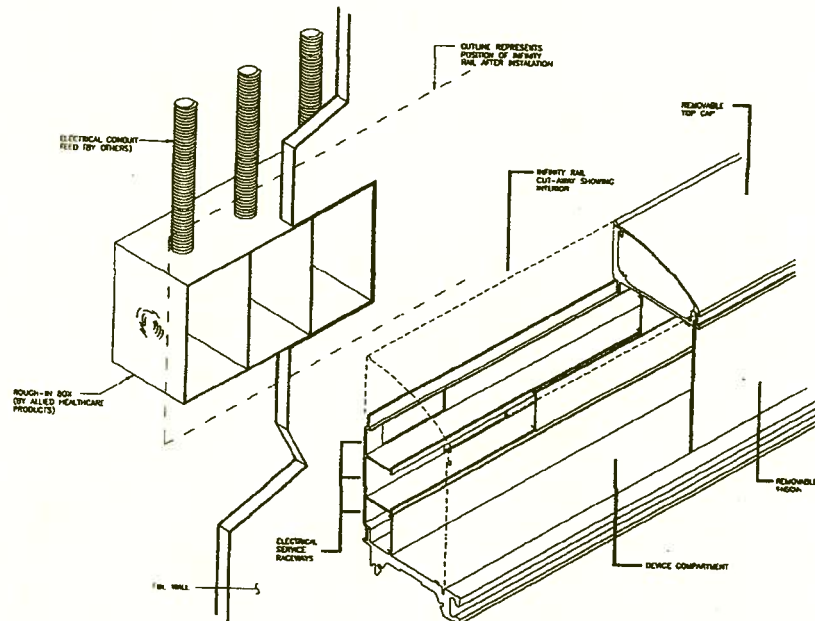
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750 Garcia Ave
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Infinity™ Horizontal Headwall



Backbox arrangement for Infinity Rail without chase



Electrical and Communications are fed from individual sections of the backbox into the appropriate raceway within the Infinity



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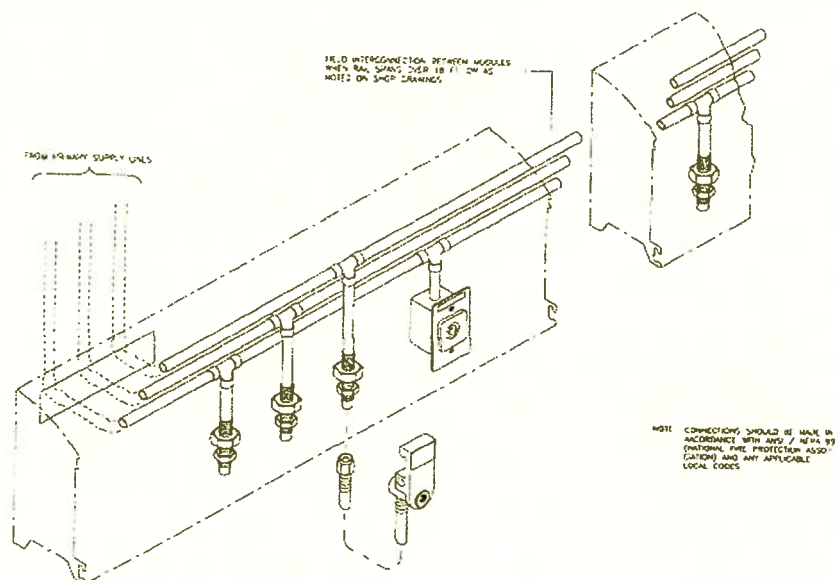
Installation Instructions

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Infinity™ Horizontal Headwall



Medical Gas connections for Infinity without chase

REVISION					
1					
2					
3					
4					
5					

TITLE: MOUNTING DIAGRAM, INFINITY RAIL

PROJECT:
VAMC Palo Alto
Palo Alto, California

10580

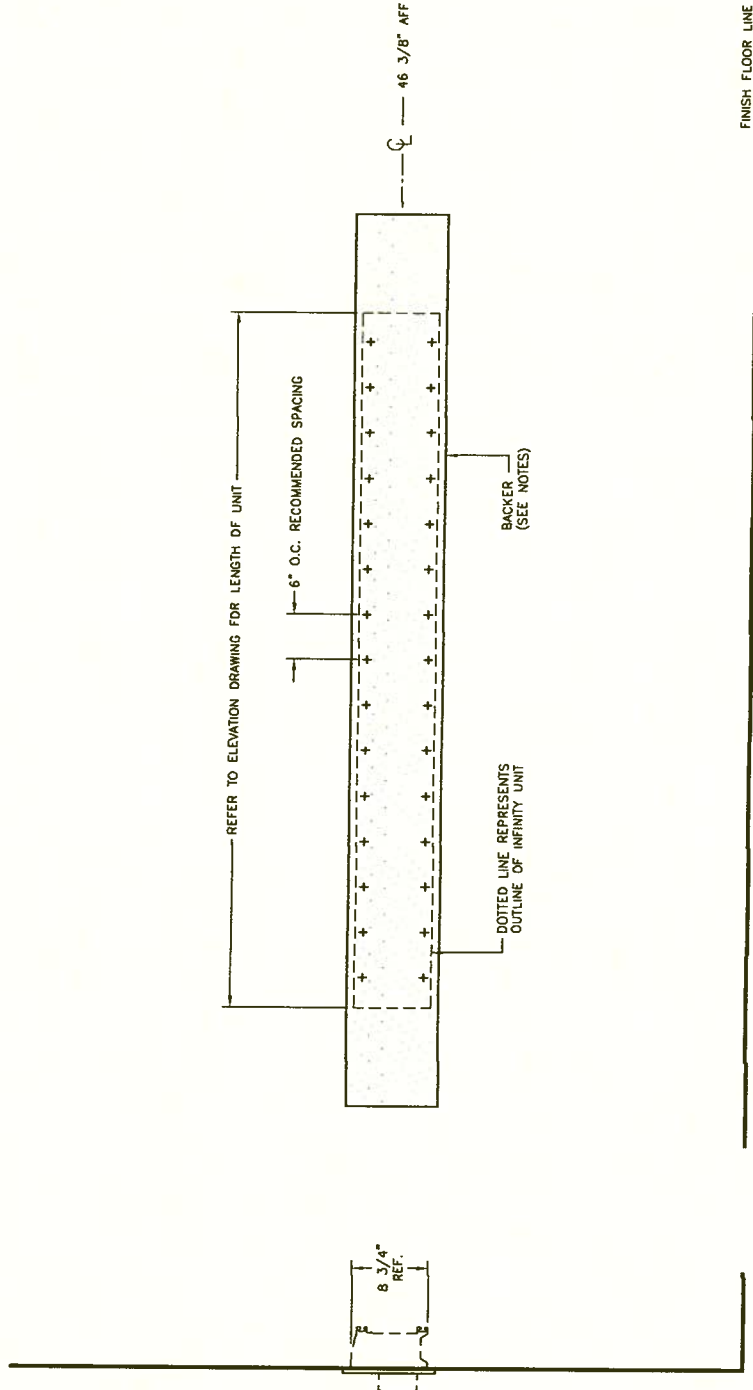
Drawn	LD
Date	01.11.12
Checked	
Scale	1/16" = 1"
Part Number	265785

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NOTES:

1. BUILDING WALL MUST BE TRUE AND FLAT. WALL TO BE CONSTRUCTED OF 20 GA MINIMUM STEEL STUDS ON 16 INCH MAXIMUM CENTERLINES WITH 5/8 INCH MINIMUM DRY WALL, OR BE CONSTRUCTED IN ACCORDANCE WITH ALL LOCAL CODES.
2. BACKER SHOWN IS ADVISORY ONLY. MINIMUM HEIGHT OF BACKER PLATE IS 9 INCHES. BACKER PLATE SHOULD ATTACH TO A MINIMUM OF 3 STUDS AND EXTEND 1 STUD MINIMUM BEYOND HEADWALL ON EACH SIDE. BACKER PLATE TO BE FURNISHED AND INSTALLED BY OTHERS. BACKING TYPE MUST BE IN ACCORDANCE WITH ALL LOCAL CODES.
3. MOUNTING HOLES ARE PROVIDED ON THE BACK OF THE UNIT. MOUNTING FASTENERS ARE DEPENDENT UPON THE TYPE OF BACKING USED AND ARE THEREFORE FURNISHED AND INSTALLED BY OTHERS. IN MOST CASES, #12 SHEET METAL SCREWS THROUGH MOUNTING HOLES IN BACK OF UNIT INTO BACKING PLATE IS RECOMMENDED.
4. INTERRUPT OR CUT OUT BACKER PLATE WHERE ELECTRICAL SERVICE BACKBOX AND MEDICAL GAS ENTRY OCCURS. REFER TO ELEVATION DRAWING FOR DETAILS.

REF. UNIT: 1903182





Bed Locator/Docker

www.hospitalsystems.com

Installation Instructions

Tel: 925.427.7800
Fax: 925.427.0800

support@hospitalsystems.com

Hospital Systems Inc.
750 Garcia Avenue
Pittsburg CA 94565
USA



Introduction:

The Hospital Systems, Inc. Bed Locator/Docker is made to order for this project. Each unit consists of a rough-in bracket, a Back-pan with devices that are pre-wired, and a Kydex cover.

Before attempting to install, please read and understand all of the instructions. In particular please refer to the final approved submittal drawings as they will take precedence over these instructions

Basic Steps for Installing the Bed Locator/Docker

- Prepare stud wall to accommodate the unit
- Mount the rough-in bracket to the studs
- Install electrical and communication conduit as shown on approved submittal drawings
- Install drywall and finish building wall
- Install the Back-pan with the electrical j-boxes
- Install and wire any required low voltage devices
- Mount the Kydex cover
- Test and Clean



Do NOT use powered screwdrivers on devices, coverplates or cover mounting screws..
Stripped holes or screw heads are NOT covered by warranty

Preparation of the stud wall

Determine the centerline for the Bed Locator/Docker from the approved submittal drawings and the contract drawings. Place vertical studs so that the gap between studs is centered at the center line of the Bed Locator/Docker.



Refer to approved submittal drawings for any dimensional changes

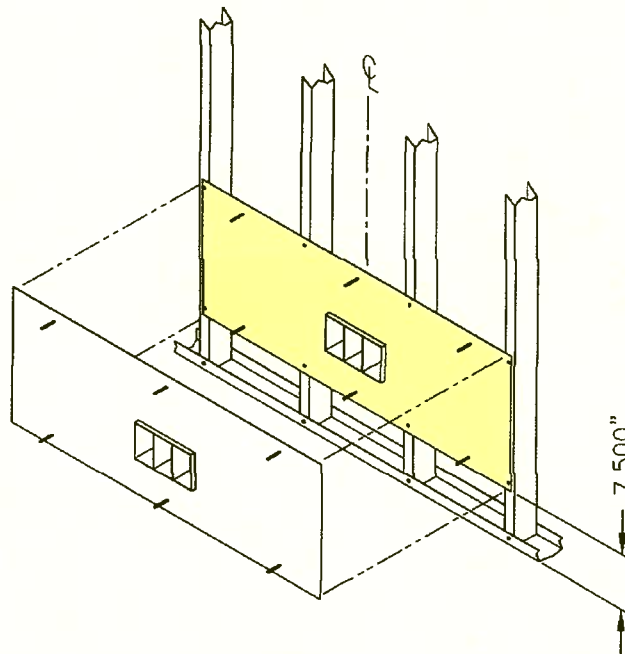


Figure 1

Mounting of the rough-in bracket

Mount the rough-in bracket so that the bottom of the bracket is 7.5" (190)mm above the floor. Attach the mounting bracket to the studs with sheet metal or TEC screws [not provided]. See Figure 1 for detail. Electrical junction boxes are integral with the rough-in bracket and locate the electrical and communication entrances. Install conduit in appropriate box. Be sure to follow the order of conduit. $\frac{3}{4}$ -1" combination knockouts are provided on the top and bottom of each compartment. Normally the order of the boxes is [R to L] Low Voltage, Emergency Power, and Normal Power. Check the approved submittal drawings for any variation. The rough-in bracket is screwed to the front of the vertical studs. Note that there are four $\frac{1}{4}$ -20 bolts attached to the bracket. These will eventually be used to mount the Bed Bumper/Locator. The threaded portion of the bolts, point into the room. Refer to Figure 2.



Be sure that the Rough-in bracket is mounted level.



Do not remove the protective covering over the threads of the attached bolts.

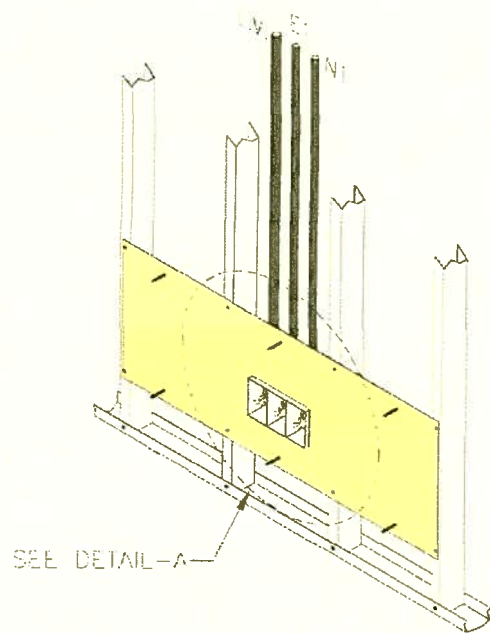
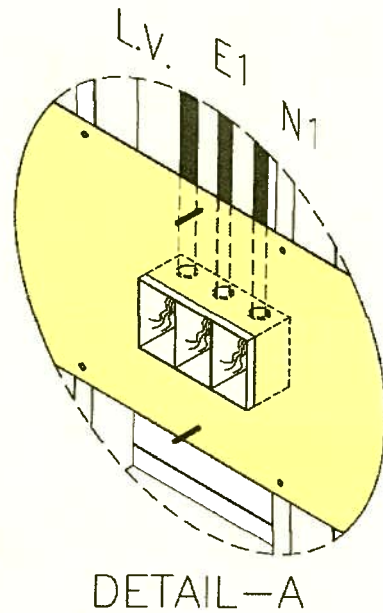


Figure 2



Drywall and Wall Finishes

Drywall contractor will now install drywall. The electrical/communication boxes protrude in front of the rough-in bracket to accommodate $\frac{5}{8}$ " drywall. See Figure 3



Be sure to warn the drywall contractor not to damage the four mounting studs.

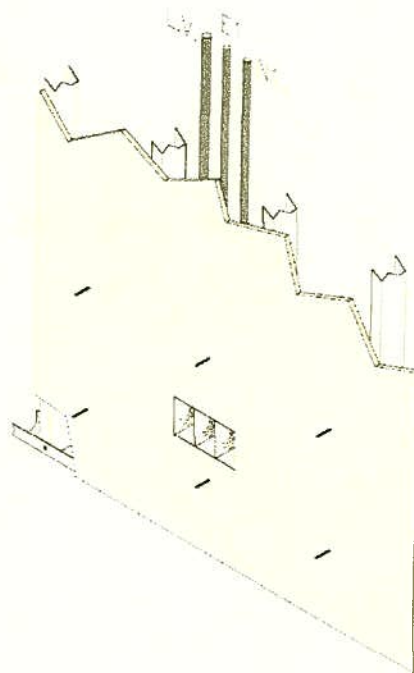


Figure 4

Installing the Bed Locator/Docker

After the building wall finishes have been applied, the Bed Locator/Docker is now ready to install. Bring it into the area, and remove it from the carton. Remove the four (4) screw at the edge of the Kydex cover and lift the lower portion of the cover away from the backpan and unhook to from the top of the backpan. The electrical devices will remain with the Kydex cover. Please use caution to not put undue strain on the flex conduit.. Loosen the two screws securing the coverplate for the electrical/communication terminal compartment.



Be sure to keep all screws and coverplate together for later re-installation

Remove the thread protectors from the six studs protruding from the building wall. Mount the Bed Locator/Docker backpan to the six studs. Use the flanged locking nuts [provided]. See Fig 5



DO NOT OVER-TIGHTEN. Backpan must remain flat and un-bowed. If the backpan becomes bowed you will not be able to properly remount the Kydex cover.

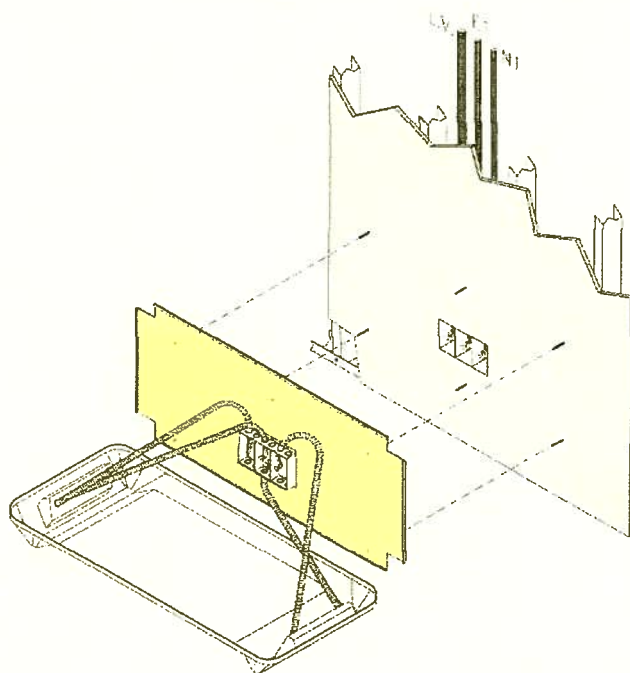


Figure 5

Internal flex conduit of your units may differ from Figure 5.

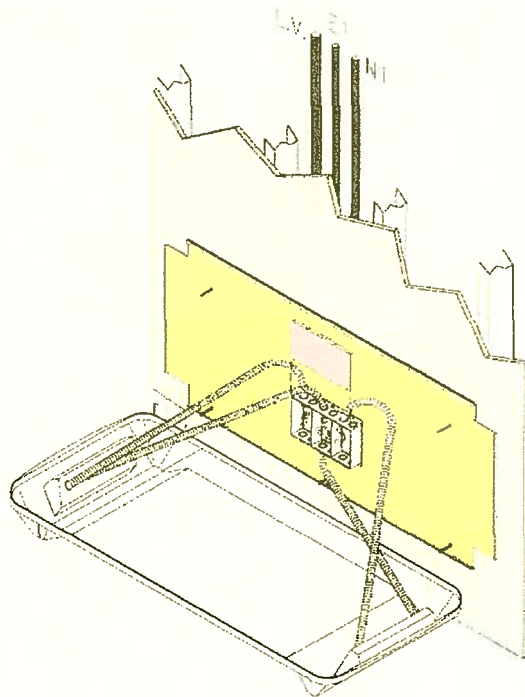


Figure 6

Electrical and Communication Wiring and Cables

Pull electrical and communication wiring into the appropriate terminal compartments. Connect the incoming wires to the pig-tails provided in the Bed Locator/Docker junction boxes. Communication wiring should go through the terminal compartment directly to the device that it will serve. A pull cord has been provided.

Once connections have been made, secure the junction box cover plate to the junction box. Be sure to have the cover behind the flange at the bottom of the terminal compartment before tightening the screws at the top.

Install the Cover

Hook the cover over the top of the backpan. As you close down the cover, be sure to route the flex conduit so that it lays next to the white impact cushions. Re-install the cover screws.

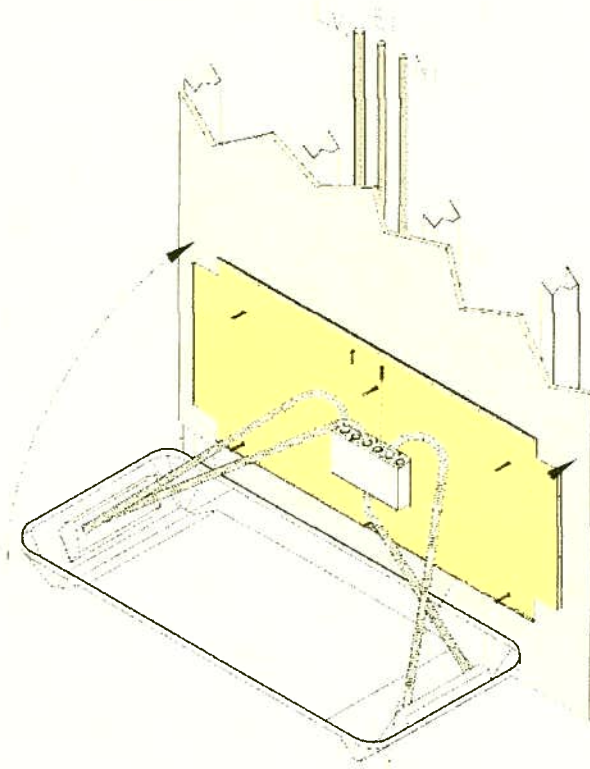


Figure 7

Nurse Call and Other Communication Devices

Install devices per the installation instructions of the device manufacturer. Mounting holes are drilled and tapped for 6-32 screws.



Note: for telephone and/or data jacks, we have provided a module holder and coverplate. These holders will accommodate standard RJ-11, and RJ-45 modules. **DO NOT INSTALL** standard wall box plates. Additional holders and cover plates as well as modules (in various colors, and blanks) are available from Hospital Systems



If the optional 37-pin bed communication jack is provided, it will have a 10ft whip prewired, you will need to pull this through your conduit to the nurse call patient station.

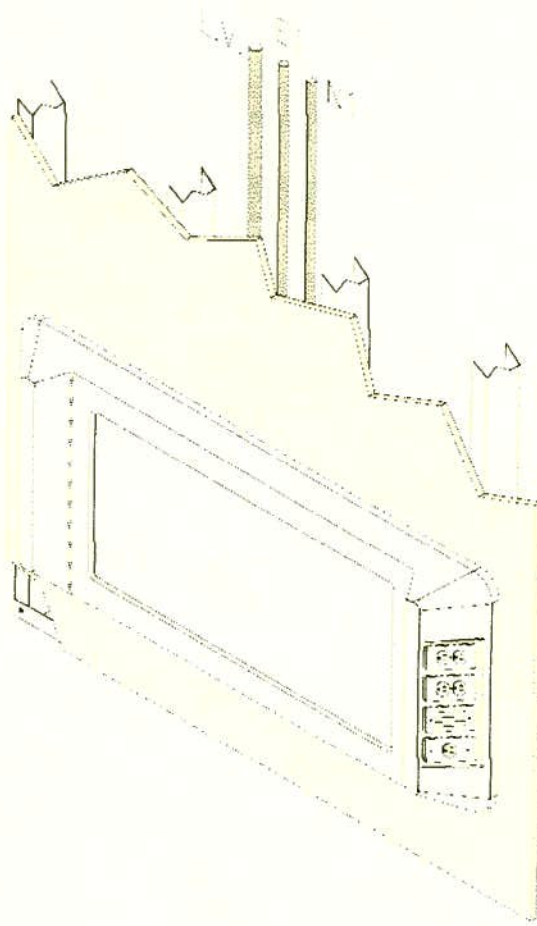


Figure 7

Final Test

Test electrical receptacles and other devices per local code and general practices

Cleaning

Use a soft cloth with non-abrasive cleaner (i.e. 409 or Windex) to remove dirt and fingerprints.

REVISION					
1					
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TITLE: MOUNTING AND ROUGH-IN DIAGRAM, BED LOCATOR

PROJECT:
VAMC Palo Alto
Palo Alto, California

10580

Drawn:	LD
Date:	01.11.12
Checked:	
Scale:	1/8"=1'
Part Number	265786

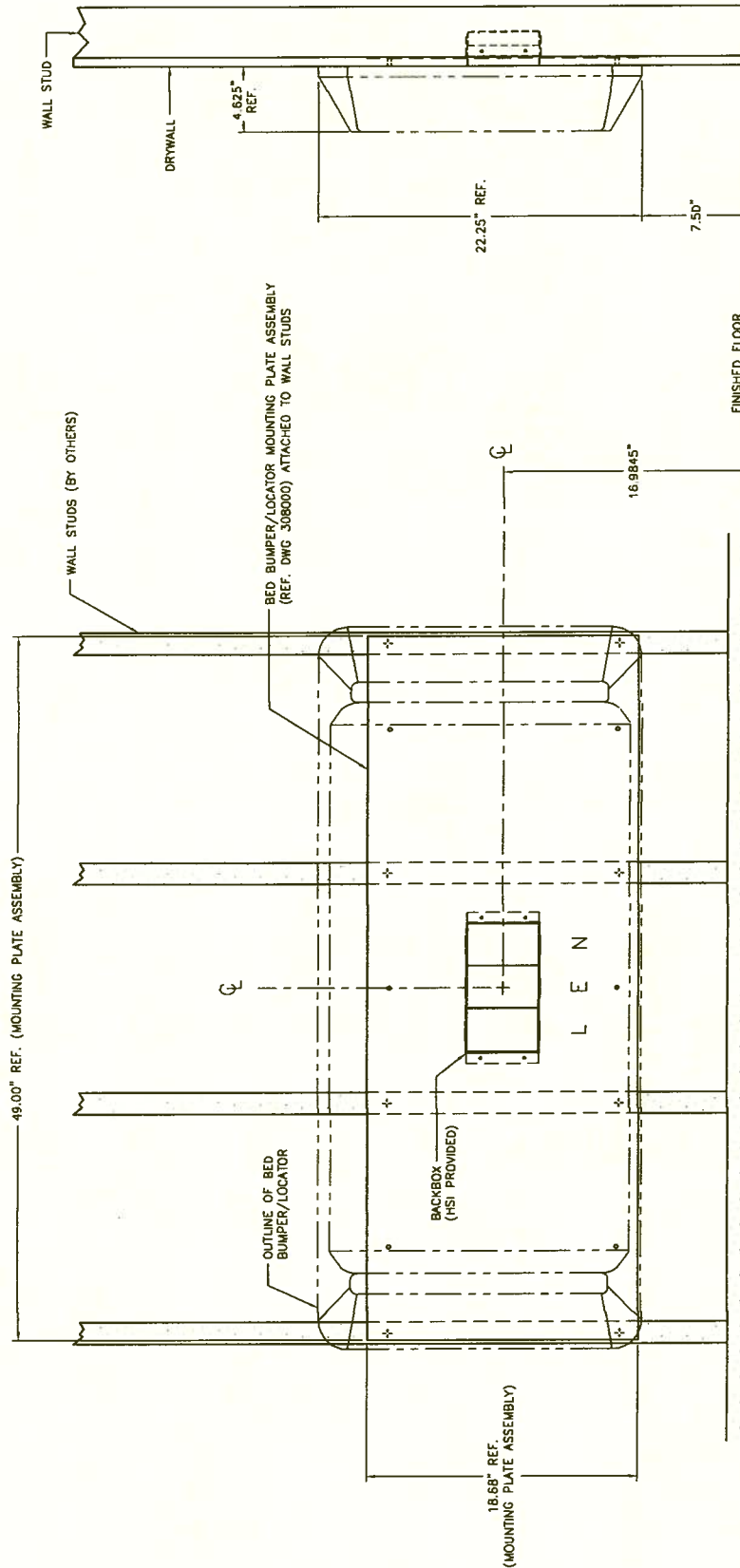
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NOTES:

1. ROUGH-IN INFORMATION IS ADVISORY ONLY.
2. BUILDING WALL MUST BE TRUE AND FLAT. WALL TO BE CONSTRUCTED OF 20 GA MINIMUM STEEL STUDS ON 16 INCH MAXIMUM CENTERLINES WITH 0.625 INCH MINIMUM DRY WALL, OR CONSTRUCTED IN ACCORDANCE WITH ALL LOCAL CODES.
3. MOUNTING FASTENERS ARE FURNISHED AND INSTALLED BY OTHERS.

L - LOW VOLTAGE CIRCUITS (SIGNAL & COMMUNICATION)
E - EMERGENCY CIRCUITS & GROUNDING
N - NORMAL CIRCUITS & GROUNDING

NOTE: ELECTRICAL SERVICE BACKBOX SHOWN IS PART OF THE MOUNTING PLATE THAT IS FURNISHED BY HSI & INSTALLED BY OTHERS.



SIDE VIEW

FRONT VIEW

REF. UNIT: 1903183

Part 3

Parts List

BILL OF MATERIAL FOR
VAMC Palo Alto 10580

Job: 10580-01

Patriot Construction, Inc.

Purchasing

Production

Engineering

<i>PartID</i>	<i>Qty</i>	<i>Description</i>
1903182	13	Infinity Headwall, Rail, 13-G

Raw Material

Seq	PartID	Description	UM	Quantity	Loc.	Pulled	Complt	Amt Short
1	WA4X8PF	Plastic Laminate, 4X8PF, 48" x 96" Sheet, Wilsonart Color: Sugarloaf Maple	SH	0.00		<input type="checkbox"/>		_____
2	010124	Stand-Off, Medical Gas Outlet, Infinity, Rev 5	EA	39.00	I3I/B9B	<input type="checkbox"/>		_____
3	030541	End Cap, Infinity, Molded Plastic, Right End	EA	13.00	I4K / B14B	<input type="checkbox"/>		_____
4	030542	End Cap, Infinity, Molded Plastic, Left End	EA	13.00	I4L /	<input type="checkbox"/>		_____
5	030598	End Cap Insert, Infinity, Dual Eclipse Rail, Mill Finish	EA	26.00	I3C	<input type="checkbox"/>		_____
6	050063	Fascia Material, .050" Raw Aluminum, 5.656" x 120", 5052 H32, Shear Tolerance +.000 / -.030	FT	65.00	M1	<input type="checkbox"/>		_____
7	050471	Extrusion, Horizontal Top, Infinity, Aluminum 6063-T5, Mill Finish, 18' Long	FT	60.00	EX1G	<input type="checkbox"/>		_____
8	050472	Extrusion, Horizontal Bottom, Infinity, Aluminum 6063-T5, Etched & Anodized, 18' Long	FT	60.00	EX2E	<input type="checkbox"/>		_____
9	050473	Extrusion, Backpan, Infinity, Aluminum 6063-T5, Mill Finish, 18' Long	FT	60.00	EX2C	<input type="checkbox"/>		_____
10	050474	Extrusion, Snap-In Wireway Cover, Infinity, Aluminum 6063-T5, Mill Finish, 8' Long	FT	144.00	F6D	<input type="checkbox"/>		_____
11	050475	Extrusion, Hanger, Infinity, Aluminum 6063-T5, Etched & Anodized, 18' Long	FT	60.00	EX1E	<input type="checkbox"/>		_____
12	050476	Extrusion, Top Cover With Rail, Infinity, Aluminum 6063-T5, Etched & Anodized, 18' Long	FT	60.00	EX2A/EX2F	<input type="checkbox"/>		_____

BILL OF MATERIAL FOR
VAMC Palo Alto 10580

Job: 10580-01

Patriot Construction, Inc.

Purchasing

Production

Engineering

<i>PartID</i>	<i>Qty</i>	<i>Description</i>
1903182	13	Infinity Headwall, Rail, 13-G

Raw Material

Seq	PartID	Description	UM	Quantity	Loc.	Pulled	Complt	Amt Short
13	050964	Extrusion, Snap-In Trim, Infinity, Gray PVC (RV-8643), 10' Long	FT	65.00	F4C	<input type="checkbox"/>		
14	080227	Barrier, Infinity, Blank	EA	52.00	I1B/B3C	<input type="checkbox"/>		
15	150514	Bushing, 1-1/2" Hole, Black	EA	39.00	I7B/B14C	<input type="checkbox"/>		
16	230954-02	*Face Plate, 1G, Aluminum, Narrow, Duplex Receptacle	EA	52.00	I12C	<input type="checkbox"/>		
17	230631	*Face Plate, 3G, Aluminum, Narrow, Blank	EA	13.00	I11K/B7C	<input type="checkbox"/>		
18	290069	Receptacle, Duplex, Hospital Grade, Illuminated, 2 Pole, 3 Wire, 20A, 125V, NEMA 5-20R, Leviton, Red	EA	26.00	I17I	<input type="checkbox"/>		
19	290061	Receptacle, Duplex, Hospital Grade, 2 Pole, 3 Wire, 20A, 125V, NEMA 5-20R, Leviton, Ivory	EA	26.00	I17F	<input type="checkbox"/>		
20	290900	Medical Gas, Oxygen, Back, Beacon	EA	13.00	I24H	<input type="checkbox"/>		
21	290901	Medical Gas, Air, Back, Beacon	EA	13.00	I24I	<input type="checkbox"/>		
22	290902	Medical Gas, Vacuum, Back, Beaco	EA	13.00	I24J	<input type="checkbox"/>		
23	290905	Medical Gas, Oxygen, DISS, Front, Beacon	EA	13.00	I23L	<input type="checkbox"/>		
24	290906	Medical Gas, Air, DISS, Front, Beacon	EA	13.00	I23L	<input type="checkbox"/>		
25	290907	Medical Gas, Vacuum, DISS, Front, Beacon	EA	13.00	I23M	<input type="checkbox"/>		

BILL OF MATERIAL FOR

VAMC Palo Alto 10580

Job: 10580-02

Patriot Construction, Inc.

Purchasing

Production

Engineering

PartID	Qty	Description
1903183	13	Bed Bumper/ Locator, No Devices

Raw Material

Seq	PartID	Description	UM	Quantity	Loc.	Pulled	Complt	Amt Short
1	031864	Backbox, Outlets, Bed Locator Docking Station & Retractable/Rigid Ceiling Columns, HSI	EA	26.00	Z		<input type="checkbox"/>	_____
2	210668	Cushion, Foam Pad, Bed Bumper/Locator, HSI 2" X 36"	EA	26.00	Z		<input type="checkbox"/>	_____
3	211853	Bed Locator/Docking Station, HSI, Modified	EA	13.00	Z		<input type="checkbox"/>	_____
4	071864	Hanger, Bed Locator/Docking Station, 16 GA Galvanized Steel	EA	13.00	Z		<input type="checkbox"/>	_____
5	250525	Screw, Ground, 8-32 x 3/8", Slot/Hex Washer, Green, Type F	EA	26.00	I16E		<input type="checkbox"/>	_____
6	030615	Extension Box, Bed Locator/Docking Station, 16 GA Galvanized Steel	EA	13.00	Z		<input type="checkbox"/>	_____
7	030617	Cover Plate, Extension Box, Bed Locator/Docking Station, 16 GA Galvanized Steel	EA	13.00	Z		<input type="checkbox"/>	_____
8	230954-01	*Face Plate, 1G, Aluminum, Narrow, Blank	EA	13.00	I12C/B7C		<input type="checkbox"/>	_____

Part 4

Data Sheets / Accessories

BEACONMEDAES[®] Medical Gas Outlets NFPA [US] Standards

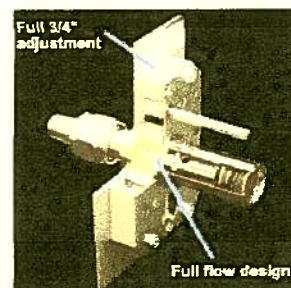
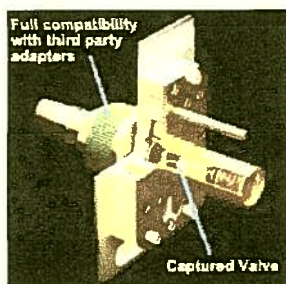
The quick-connect and DISS medical gas outlets for consoles and modular headwalls are gas specific for the services indicated and accept only corresponding adapters. The outlets are UL listed, CSA certified and are fully compliant with the latest edition of NFPA 99. All outlets are 100% tested for flow, leaks and connector attachment. The outlet is cleaned for oxygen service prior to shipping.

Features:

- Universal rough-in common for all outlets
- 'Captured' valve design eliminates lost parts
- No special tools required
- High flow rates with minimal pressure drop

Manufactured
by:
BEACONMEDAES[®]

Made in USA



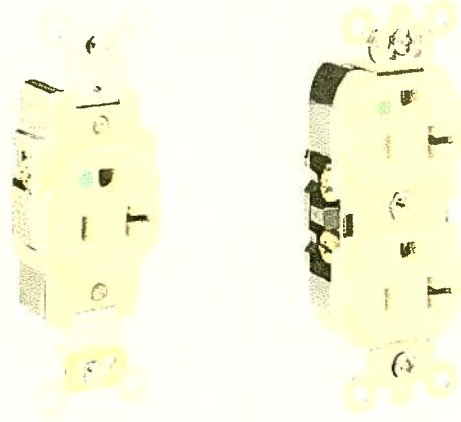
Ordering Information

Compatibility	Puritan Bennett	DISS	Medaes/Ohmeda Diamond III	Chemetron
Oxygen	298383	298378	298393	298388
Medical Air	298384	298379	298394	298389
Vacuum	298385	298380	298395	298390
N ₂ O	298386	298381	298396	298391
Evac	298367	298382	298397	298392

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Electrical Receptacles NEMA 5-20R and 5-15R

Hospital Grade Receptacles are available in both 15A and 20A ratings, and in five different colors to coordinate with every environment. They are designed to provide the kind of durability you count on when safe, uninterrupted power is critical.



Features:

- Automatic Ground Clip assures ground continuity between bridge and headwall
- Molded, heavy-duty thermoplastic polyester face resists chipping, cracking and breaking, when subjected to extremely high impact
- One-piece mounting strap and integral ground contact, made of nickel-plated brass, assures low-resistance ground path
- High-impact reinforced thermoplastic polyester base is tough and heat-resistant
- Large-head oxide-cutting terminal screws provide secure connections.
- External backwiring clamp provides positive back and side wiring capability
- Manufactured by Leviton

Ordering Information

Color	15Amp Duplex		20Amp Duplex		15Amp Single		20 Amp Single	
Brown	290084	8200H	290085	9300H	290521	8210H	290203	8310H
Ivory	290072	8200HI	290077	8300HI	290522	8210HI	290096	8310HI
Red	290073	8200HR	290078	8300HR	290523	8210HR	290196	8310HR
White	290075	8200HW	290080	9300HW	290524	8210HW	290326	8310H W
Gray	290074	8200HGY	290079	8300HGY	290525	8210HGY	290135	8310H GY

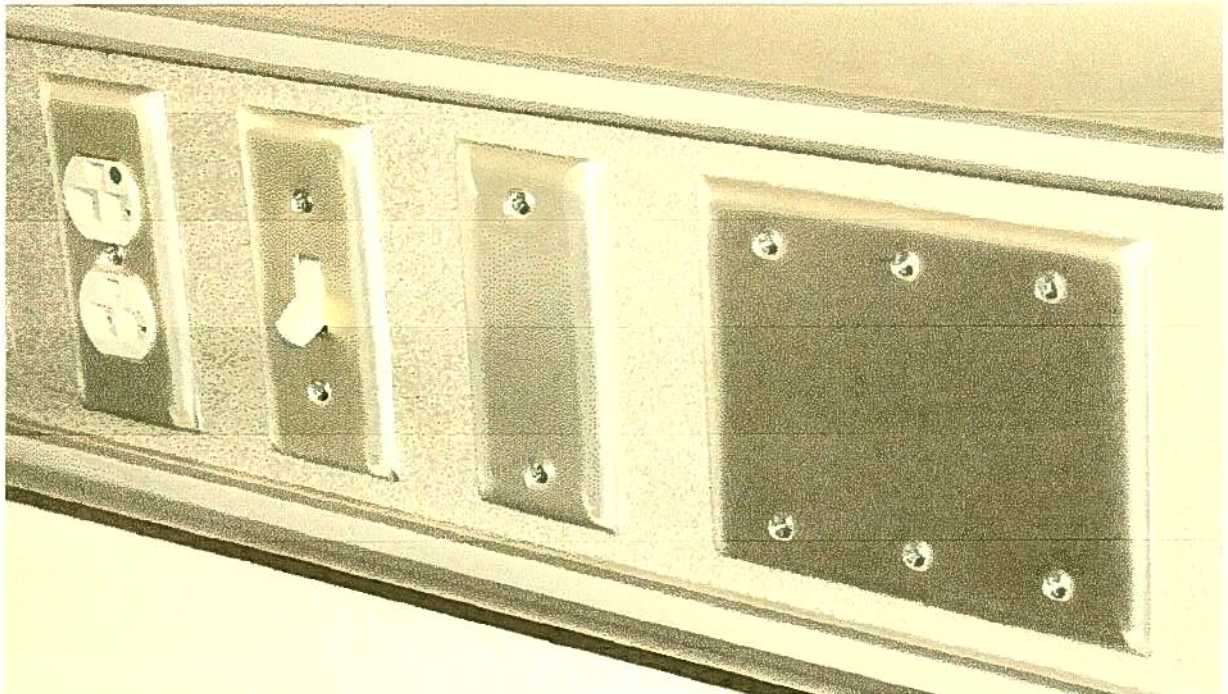


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www.HospitalSystems.com

Face Plate, Aluminum Hospital Systems, Inc.



The Hospital Systems, Inc. Face Plate is formed from a single piece of deep-etch, and anodized aluminum. The 6063-T4 alloy is used to provide a constant gray color with the proper hardening for resistance to scratching and abrasion.

Plates are available either as blank or punched for various electrical and communication devices.

Ordering Information

		Part No.	
		Clear Anodized	Red Anodized
1 Gang			
	Blank	230954-01	
	Duplex Receptacle	230954-02	230954-02R
	Single Receptacle	230954-03	230954-03R
	Toggle Switch	230954-05	230954-05R
	Decora Switch	230954-09	230954-09R
	Telephone	230954-15	
2 Gang Blank		230630	
3 Gang Blank		230631	
4 Gang Blank		230633	

No Gangs	Height	Width
1	4.5" (115)	2.25" (57)
2	4.5" (115)	4.06" (103)
3	4.5" (115)	5.87" (150)
4	4.5" (115)	7.68" (195)

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